

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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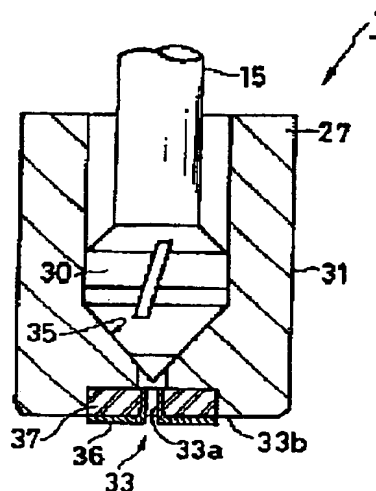
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APPLICATION NUMBER : 09095116

APPLICANT : ZEXEL CORP;

INVENTOR : OKUYAMA SUSUMU;

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TITLE : FUEL INJECTION VALVE



**ABSTRACT :** PROBLEM TO BE SOLVED: To provide a fuel injection valve to reliably decrease accumulation of deposit on the surface of an injection nozzle part through simple constitution.

**SOLUTION:** A fuel injection valve 1 is formed such that since an injection nozzle part 31 consists of a member made of ceramics and a fluorine material layer 36 is formed on the surface of the injection nozzle part 31, when the interior of a combustion cylinder is high temperature, accumulation of deposit is decreased by a burnt dropping effect by a member made of ceramics. Meanwhile, during a low temperature right after starting, adhesion of fuel to the injection nozzle part is prevented from occurring by oil repellency of the fluorine material layer 36 and accumulation of deposit is prevented from occurring. This constitution, since adhesion of deposit both during high temperature and during a low temperature in a combustion cylinder is prevented, reliably decreases accumulation of deposit at the injection nozzle part.

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